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not be less than 0.0175 meter-radians (0.689 inch-radians).

(4) Each submerged opening must be weathertight (e.g. a vent fitted with a ball check valve).

(f) *Intermediate stages of flooding.* The Commandant is satisfied that the stability is sufficient during intermediate stages of flooding.

[CGD 79-153, 48 FR 38649, Aug. 25, 1983]

§ 42.20-13 Vessels without means of propulsion.

(a) A lighter, barge, or other vessel without independent means of propulsion is assigned a freeboard in accordance with the provisions of this subpart as modified by paragraphs (b), (c), and (d) of this section.

(b) A barge that meets the requirements of § 42.09-5(b) may be assigned Type "A" freeboard if the barge does not carry deck cargo.

(c) An unmanned barge is not required to comply with § 42.15-75, § 42.15-80(b), or § 42.20-70.

(d) An unmanned barge that has only small access openings closed by watertight gasketed covers of steel or equivalent material on the freeboard deck, may be assigned a freeboard 25 percent less than that calculated in accordance with this subpart.

[CGD 79-153, 48 FR 38649, Aug. 25, 1983]

§ 42.20-15 Freeboard tables.

(a) *Type "A" vessel.* (1) The tabular freeboard for Type "A" vessel shall be determined from Table 42.20-15(a)(1):

TABLE 42.20-15(a)(1)—FREEBOARD TABLE FOR TYPE "A" VESSELS

Length of vessel (feet)	Freeboard ¹ (inches)
80	8.0
90	8.9
100	9.8
110	10.8
120	11.9
130	13.0
140	14.2
150	15.5
160	16.9
170	18.3
180	19.8
190	21.3
200	22.9
210	24.5
220	26.2
230	27.8
240	29.5
250	31.1

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TABLE 42.20-15(a)(1)—FREEBOARD TABLE FOR TYPE "A" VESSELS—Continued

Length of vessel (feet)	Freeboard ¹ (inches)
260	32.8
270	34.6
280	36.3
290	38.0
300	39.7
310	41.4
320	43.2
330	45.0
340	46.9
350	48.8
360	50.7
370	52.7
380	54.7
390	56.8
400	58.8
410	60.9
420	62.9
430	65.0
440	67.0
450	69.1
460	71.1
470	73.1
480	75.1
490	77.1
500	79.0
510	80.9
520	82.7
530	84.5
540	86.3
550	88.0
560	89.6
570	91.1
580	92.6
590	94.1
600	95.5
610	96.9
620	98.3
630	99.6
640	100.9
650	102.1
660	103.3
670	104.4
680	105.5
690	106.6
700	107.7
710	108.7
720	109.7
730	110.7
740	111.7
750	112.6
760	113.5
770	114.4
780	115.3
790	116.1
800	117.0
810	117.8
820	118.6
830	119.3
840	120.1
850	120.7
860	121.4
870	122.1
880	122.7
890	123.4
900	124.0
910	124.6
920	125.2
930	125.7
940	126.2
950	126.7

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TABLE 42.20–15(a)(1)—FREEBOARD TABLE FOR
TYPE “A” VESSELS—Continued

Length of vessel (feet)	Freeboard ¹ (inches)
960	127.2
970	127.7
980	128.1
990	128.6
1,000	129.0
1,010	129.4
1,020	129.9
1,030	130.3
1,040	130.7
1,050	131.0
1,060	131.4
1,070	131.7
1,080	132.0
1,090	132.3
1,100	132.6
1,110	132.9
1,120	133.2
1,130	133.5
1,140	133.8
1,150	134.0
1,160	134.3
1,170	134.5
1,180	134.7
1,190	135.0
1,200	135.2
1,200 ²	

¹Freeboards at intermediate lengths of vessels shall be obtained by linear interpolation.

²Vessels above 1,200 feet in length shall be dealt with by the Commandant.

(b) *Type “B” vessels.* (1) The tabular freeboard for Type “B” vessels shall be determined from Table 42.20–15(b)(1):

TABLE 42.20–15(b)(1)—FREEBOARD TABLE FOR
TYPE “B” VESSELS

Length of vessel (feet)	Freeboard ¹ (inches)
80	8.0
90	8.9
100	9.8
110	10.8
120	11.9
130	13.0
140	14.2
150	15.5
160	16.9
170	18.3
180	19.8
190	21.3
200	22.9
210	24.7
220	26.6
230	28.5
240	30.4
250	32.4
260	34.4
270	36.5
280	38.7
290	41.0
300	43.3
310	45.7
320	48.2
330	50.7
340	53.2
350	55.7

TABLE 42.20–15(b)(1)—FREEBOARD TABLE FOR
TYPE “B” VESSELS—Continued

Length of vessel (feet)	Freeboard ¹ (inches)
360	58.2
370	60.7
380	63.2
390	65.7
400	68.2
410	70.7
420	73.2
430	75.7
440	78.2
450	80.7
460	83.1
470	85.6
480	88.1
490	90.6
500	93.1
510	95.6
520	98.1
530	100.6
540	103.0
550	105.4
560	107.7
570	110.0
580	112.3
590	114.6
600	116.8
610	119.0
620	121.1
630	123.2
640	125.3
650	127.3
660	129.3
670	131.3
680	133.3
690	135.3
700	137.1
710	139.0
720	140.9
730	142.7
740	144.5
750	146.3
760	148.1
770	149.8
780	151.5
790	153.2
800	154.8
810	156.4
820	158.0
830	159.6
840	161.2
850	162.8
860	164.3
870	165.9
880	167.4
890	168.9
900	170.4
910	171.8
920	173.3
930	174.7
940	176.1
950	177.5
960	178.9
970	180.3
980	181.7
990	183.1
1,000	184.4
1,010	185.8
1,020	187.2
1,030	188.5
1,040	189.8
1,050	191.0

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TABLE 42.20–15(b)(1)—FREEBOARD TABLE FOR TYPE “B” VESSELS—Continued

Length of vessel (feet)	Freeboard ¹ (inches)
1,060	192.3
1,070	193.5
1,080	194.8
1,090	196.1
1,100	197.3
1,110	198.6
1,120	199.9
1,130	201.2
1,140	202.3
1,150	203.5
1,160	204.6
1,170	205.8
1,180	206.9
1,190	208.1
1,200	209.3
1,200 ²	

¹Freeboards at intermediate lengths of vessel shall be obtained by linear interpolation.

²Vessels above 1,200 feet in length shall be dealt with by the Commandant.

[CGFR 68–60, 33 FR 10064, July 12, 1968, as amended by CGFR 68–126, 34 FR 9015, June 5, 1969]

§ 42.20–20 Correction to the freeboard for vessels under 328 feet in length.

(a) The tabular freeboard for a Type “B” vessel of between 79 feet and 328 feet in length having enclosed superstructures with an effective length of up to 35 percent of the length of the vessel shall be increased by:

$$0.09 (328 - L) [0.35 - (E/L)] \text{ inches}$$

where:

L =length of vessel in feet.

E =effective length of superstructure in feet as defined in § 42.20–50.

[CGFR 68–60, 33 FR 10064, July 12, 1968]

§ 42.20–25 Correction for block coefficient.

If the block coefficient (C_b) exceeds 0.68, the tabular freeboard specified in § 42.20–15 as modified, if applicable, by §§ 42.20–5 (b) and (d), and 42.20–20(a) must be multiplied by the factor $(C_b + 0.68)/1.36$.

[CGD 79–153, 48 FR 38650, Aug. 25, 1983]

§ 42.20–30 Correction for depth.

(a) Where D exceeds $L^{1/15}$ the freeboard shall be increased by $[D - (L/15)] R$ inches, where R is $L/131.2$ at lengths less than 393.6 feet and 3 at 393.6 feet length and above.

(b) Where D is less than $L/15$ no reduction shall be made except in a ves-

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sel with an enclosed superstructure covering at least $0.6L$ amidships, with a complete trunk, or combination of detached enclosed superstructures and trunks which extend all fore and aft, where the freeboard shall be reduced at the rate prescribed in paragraph (a) of this section.

(c) Where the height of superstructure or trunk is less than the standard height, the reduction shall be in the ratio of the actual to the standard height as defined in § 42.20–40.

[CGFR 68–60, 33 FR 10064, July 12, 1968]

§ 42.20–35 Correction for position of deck line.

(a) Where the actual depth to the upper edge of the deck line is greater or less than D , the difference between the depths shall be added to or deducted from the freeboard.

[CGFR 68–60, 33 FR 10065, July 12, 1968]

§ 42.20–40 Standard height of superstructure.

(a) The standard height of a superstructure shall be as given in Table 42.20–40(a):

TABLE 42.20–40(a) STANDARD HEIGHTS (IN FEET)¹

Length (L) (in feet)	Raised quarter deck	All other super structures
98.5 or less	3.0	5.9
246	3.9	5.9
410 or more	5.9	7.5

¹The standard heights at intermediate lengths of the vessel shall be obtained by linear interpolation.

[CGFR 68–60, 33 FR 10065, July 12, 1968, as amended by CGFR 68–126, 34 FR 9015, June 5, 1969]

§ 42.20–45 Length of superstructure.

(a) Except as provided in paragraph (b) of this section, the length of a superstructure (S) shall be the mean length of the parts of the superstructure which lie within the length (L).

(b) Where the end bulkhead of an enclosed superstructure extends in a fair convex curve beyond its intersection with the superstructure sides, the length of the superstructure may be increased on the basis of an equivalent